

Synthetic Zeolites Market By Zeolite type (Zeolite A, Type X, Type Y, Zeolite ZSM 5, Others), By Application (Adsorbents, Detergents, Catalysts, Masking agent, Wastewater Treatment, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031

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Report description:

The synthetic zeolites market attained \$5.3 billion in 2021 and is projected to reach \$7.3 billion by 2031, growing at a CAGR of 3.3% from 2022 to 2031.?

Powdered synthetic zeolite is a molecular sieve. It is the most effective method for removing water from coatings, sealants, adhesives, and resins. In addition, it is used to communicate information regarding nanoparticles to the visible world. Their primary applications are medicinal, and they provide entry points for the development of numerous Nano-based products. Increasing demand for synthetic zeolites catalyst, adsorbents, and detergent builders is currently driving the need for zeolites in synthetic form.?

In the manufacturing of detergents, synthetic zeolites are frequently utilized as binding agents. The institutional, commercial, and industrial sectors' increasing demand for synthetic zeolites as detergents will drive the expansion of the synthetic zeolites market. In addition, rising per capita income and per capita spending, as well as rising awareness regarding the use of home care products, will boost the usage of detergents, which will result in an increase in demand for synthetic zeolites during the forecast period. It is expected that the increase in detergent manufacturing to fulfill the steady demand from the population will stimulate the market for synthetic zeolites for detergent and encourage manufacturers to increase their production and supply of zeolites. Zeolites are a large class of hydrated aluminum silicates, both natural and synthetic. ?The content of the raw materials and the parameters of the reaction, such as water pressure, acidity, and temperature, determine the creation of synthetic zeolite. Zeolite A, one of the most well-known synthetic zeolites, is used extensively in laundry detergents. X and Y zeolites are utilized for catalytic cracking. Byproducts of petrochemical operations and volatile organic compounds (VOCs) are dangerous to human health and the environment. These are found in sealants, adhesives, solvent-based paints, printing inks, and various consumer

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products. Chemical and petrochemical industries release the most volatile organic compounds.

Emissions of volatile organic compounds impede respiration and harm the central nervous system. For example, VOC formaldehyde is naturally carcinogenic. Environmental Protection Agency (EPA) and Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) have developed tough laws for the management of volatile organic compound (VOC) emissions. This contributes to the rising demand for materials with low VOC levels. Synthetic zeolites have characteristics such as non-flammability, thermal stability, and hydrophobicity, which renders them effective VOC adsorbents. For the elimination of volatile organic compounds, synthetic zeolites have been demonstrated to be more effective than activated carbon. Thus, the increased need for adsorbents for the elimination of VOCs presents makers of synthetic zeolites with lucrative growth opportunities. The toxicity of some zeolite dust makes them undesirable. Concerns about the potential toxicity of zeolites used in personal care products have been raised. Even accidental inhalation of these dust particles poses safety and health risks. If inhaled, zeolites, a complex class of silicates, can induce lung illnesses. According to Organization for Economic Co-operation and Development (OECD), Zeolite A, Y, and X can cause mild to moderate eye irritation. As catalysts, synthetic zeolites are susceptible to clogging, which may result in toxicity. Thus, the toxicity of manufactured zeolites is a major challenge in their application.

The synthetic zeolites market is segmented into zeolite type, application, and region. On the basis of zeolite type, the market is divided into zeolite A, type X, type Y, zeolite ZSM-5 and others. On the basis of application, it is categorized into adsorbents, detergents, catalysts, masking agents, wastewater treatment, and others. Region-wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

The major players operating in the global synthetic zeolites market are BASF SE, Albemarle Corporation, Arkema, Clariant, CWK Chemiewerk Bad Kostritz GmbH, Honeywell International Inc., KNT Group, Tosoh Corporation, W. R. Grace & Co.-Conn., Zeolyst International. Other players operating in the market are Huiying Chemical Industry (Quanzhou) Co., Ltd, National Aluminum Company Limited (NALCO), PQ Corporation, and SHOWA DENKO K.K.

Key findings of the study?

On the basis of zeolite type, the type Y segment is expected to grow at a CAGR of 3.7%, in terms of revenue, during the forecast period.

Depending on the application, the detergents segment is expected to grow at a CAGR of 3.6%, in terms of revenue, during the forecast period.

Region-wise, Asia-Pacific garnered the highest share in 2021 in terms of revenue.

Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the synthetic zeolites market analysis from 2021 to 2031 to identify the prevailing synthetic zeolites market opportunities.
- Market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the synthetic zeolites market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes an analysis of the regional as well as global synthetic zeolites market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Application

- Adsorbents
- Detergents
- Catalysts
- Masking agent
- Wastewater Treatment

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- Others

By Zeolite type

- Zeolite A

- Type X

- Type Y

- Zeolite ZSM 5

- Others

By Region

- North America

- U.S.

- Canada

- Mexico

- Europe

- Germany

- UK

- France

- Spain

- Italy

- Rest of Europe

- Asia-Pacific

- China

- India

- Japan

- South Korea

- Australia

- Rest of Asia-Pacific

- LAMEA

- Brazil

- Saudi Arabia

- South Africa

- Rest of LAMEA

- Key Market Players

- Clariant

- tosoh corporation

- KNT Group

- W. R. Grace & Co.-Conn.

- zeolyst international

- CWK Chemiewerk Bad Kostritz GmbH

- BASF SE

- Albemarle Corporation

- Arkema

- Honeywell International Inc.

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